Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

No. ***Second & Part Bill*** (For Other Works) Date.....2017

Division: **BBMP, Byatarayanapura** Sub-Division: **BBMP, Vidyaranyapura**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account: **P-3106** **Work Code: 009-16-000027** **Est.Cost: 305.00 Lakhs** D.R.No. :

Name of Work (as per sanctioned estimate: **Improvements to Roads, Drain and Drilling Borewells in Ward No. 09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division.**

Name of Contractor and Full Address: ***Sri. Akankar K.B, # 12, MSV Network Road, near Shobha Apartment, Amruthahalli, Sahakaranagara (p), Bangalore – 560 092.***

Reference to Agreement No. **EE/BTP/BBMP/ E-PMT/04(21225)/WO/228/2016-17** Date: **15.03.2017**

Certified that the measurements were taken by me on 21/12/2017 and recorded of **Pages** 01 **to** 42 of measurement Book No. E-Mb. and that the work is satisfactorily executed.

Akankar KB
Contractor

21/12/2017.
Officer-in-charge of work

Certified that the measurement were taken by me on 21/12/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Total Bill Amt:	1.90.61.401-00
2) Deduct amount to be held in reserve being .....percent Rs.		
3) " Balance		
4) Deduct Payment:		
a. Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....	Earlier part-paid. 2nd & part Amount	38.61.784-00
		1.51.99.617-00
adjusted towards cash advance recovery of	IT-	151996-00
b. Payments Now made { cost store or other material supplied.	Cess-	151996-00
{ recovery of amount creditable to this/other work	CBF-	15200-00
{ Amount paid on this bill Cheque / Cash.	LR-	153516-00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.	Adju-	472708-00
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.	Cheque:	1.47.26.909-00
Total amount adjusted -		

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Witness
1.
2.

Akankar KB
Signature of Contractor

Dated

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Initials of Officer making payment

Stamp

(For use in the Office)

ಬಿಲ್ಲು ದೊಬಲಗು ರೂ 1.51.99.617-00

ಬಿಟ್ಟಾಯ ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 472708-00

ಕೊಡಲಾಗಿ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 1.47.26.909-00

Rs. one crore forty seven lakhs twenty six thousand nine hundred nine

ಈ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಅಕ್ಷರ:

ತಾಂತ್ರಿಕ ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ. ಬೆ. ಮ. ಪಾ

ಕಾ. ಪಾ. ಅ. 22/12
ಬ್ಯಾಟರಾಯನಪುರ ವಿ
ಬೃ. ಬ. ಮ. ಪಾ

Executive Engineer

22/12

Sl. No.		Unit
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 meters complete as per specifications. Ii) dismantling brick / tile work, A, in lime mortar, etc complete as per specifications and directions of engineer in charge of the work	Cum
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 meters complete as per specifications. Ii) dismantling brick / tile work, B cement concrete grade M-15 & M-20, etc complete as per specifications and directions of engineer in charge of the work	Cum
3	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods etc complete as per specifications and directions of engineer in charge of the work	Cum
4	Removing B.S Slab of Drain and stacking etc complete as per specifications and directions of engineer in charge of the work	Sqm
	Qrty Above 125%	
5	Refixing stone slabs of drains and pointing in C.M (1:3) etc complete as per specifications and directions of engineer in charge of the work	Sqm
	Qrty Above 125%	
6	Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work	Cum
7	Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Cum
8	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing	Sqm
9	Providing and laying in position plain cement concrete of **mix 1:2:4 with OPC cement @ 240 kgs with 40mm** and down size graded granite metal coarse aggregares @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work	Cum
10	Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing etc complete as per specifications and directions of engineer in charge of the work	Sqm
11	Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, etc complete as per specifications and directions of engineer in charge of the work	Cum
12	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams etc complete as per specifications and directions of engineer in charge of the work	Cum
	Qrty Above 125%	
13	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc complete as per specifications and directions of engineer in charge of the work	Sqm

Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
	Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
Cum	0.00	0.00	0.00	244.75	0.00	0.00	0.00	
Cum	95.56	35686.88	372.37	373.45	139062.00	467.93	174748.88	
Cum	931.85	75694.18	1887.91	81.23	153355.00	2819.76	229049.18	
Sqm	2038.50	126876.24	961.20	62.24	59825.00	2999.70	186701.24	
	0.00	0.00	3060.18	78.69	240806.00	3060.18	240806.00	
Sqm	2038.50	156984.89	961.20	77.01	74022.00	2999.70	231006.89	
	0.00	0.00	3060.18	64.20	196464.00	3060.18	196464.00	
Cum	143.34	709957.29	296.97	4952.96	1470881.00	440.31	2180838.29	
Cum	0.00	0.00	16.80	4039.38	67862.00	16.80	67862.00	
Sqm	0.00	0.00	28.00	93.89	2629.00	28.00	2629.00	
Cum	0.00	0.00	16.60	5363.34	89031.00	16.60	89031.00	
Sqm	0.00	0.00	192.00	994.81	191004.00	192.00	191004.00	
Cum	0.00	0.00	185.85	6054.32	1125195.00	185.85	1125195.00	
Cum	95.56	591051.98	212.12	6185.14	1311992.00	307.68	1903043.98	
			17.33	6087.16	105490.00	17.33	105490.00	
Sqm	912.40	86623.26	1537.99	94.94	146017.00	2450.39	232640.26	

Sl. No.		Uni
14	Providing groove cutting for **cement pavement** wifth of 5mm to 10mm and depth 800mm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including cleaning of groove and providing sand and hot bitumen fillarsm and filler metal etc including of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing etc complete as per specifications and directions of engineer in charge of the work	Rmt
15	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete 10 cms thick etc complete as per specifications and directions of engineer in charge of the work	Sqm
	Qrty Above 125%	
16	Providing chamfering edges to stone slab 2.5cms. wide as per specifications. (only chamfered length shall be recorded) etc complete as per specifications and directions of engineer in charge of the work	m
17	Providing two line dressing to granite stone slab / granite stone masonry etc complete as per specifications and directions of engineer in charge of the work	Sqm
18	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500** etc complete as per specifications and directions of engineer in charge of the work	Tonne
19	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work	Sqm
20	Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work	Sqm
21	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Sqm
22	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc complete as per specifications and directions of engineer in charge of the work	No
23	Providing and applying ready mix **priming coat over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughtly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, etc complete as per specifications and directions of engineer in charge of the work	Sqm
24	Providing and applying floor **painting with ready mix two coats** (Excluding priming coat) on new s concrete / masonry / asbestos cement sheet / / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, etc complete as per specifications and directions of engineer in charge of the work	Sqm
25	Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) etc complete as per specifications and directions of engineer in charge of the work	Cum
26	Scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges etc complete as per specifications and directions of engineer in charge of the work	Sqm
	Qrty Above 125%	
27	Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density etc complete as per specifications and directions of engineer in charge of the work	Cum

Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
	Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
Rmt	94.60	11476.87	120.80	121.32	14655.00	215.40	26131.87	
Sqm	0.00	0.00	40.50	776.44	31446.00	40.50	31446.00	
			330.75	650.24	215067.00	330.75	215067.00	
m	0.00	0.00	216.00	34.81	7519.00	216.00	7519.00	
Sqm	0.00	0.00	32.40	903.03	29258.00	32.40	29258.00	
Tonne	0.00	0.00	11.15	68186.31	760277.00	11.15	760277.00	
Sqm	0.00	0.00	1759.24	299.60	527068.00	1759.24	527068.00	
Sqm	0.00	0.00	0.00	321.76	0.00	0.00	0.00	
Sqm	0.00	0.00	0.00	221.54	0.00	0.00	0.00	
Nos	0.00	0.00	0.00	313.32	0.00	0.00	0.00	
Sqm	0.00	0.00	0.00	26.37	0.00	0.00	0.00	
Sqm	0.00	0.00	0.00	50.64	0.00	0.00	0.00	
Cum	0.00	0.00	0.00	303.82	0.00	0.00	0.00	
Sqm	0.00	0.00	5947.63	25.32	150594.00	5947.63	150594.00	
			469.96	25.89	12167.00	469.96	12167.00	
Cum	694.02	1161789 ~~1161928.28~~	1786.25	1674.20 1674	2990540.00	2480.27	4152468.28	

Sl. No.		Unit
28	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means etc complete as per specifications and directions of engineer in charge of the work	Sqm
29	Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead lift and cost including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications using **40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen,** etc complete as per specifications and directions of engineer in charge of the work	Cum
30	Providing and applying **tack coat** using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries etc complete as per specifications and directions of engineer in charge of the work	Sqm
31	Providing and laying **bituminous concrete 40mm** thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH Specificationon NO. 509, using **40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen** etc complete as per specifications and directions of engineer in charge of the work	Cum
32	Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects **with 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (25 mm to 30 mm) with 5 % VG-10 Bitumen** etc complete as per specifications and directions of engineer in charge of the work	Cum
37	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** etc complete as per specifications and directions of engineer in charge of the work	Cum
		Total

CERTIFICATE :

1. Certified that the above work done satisfactory and no materials issued from departmentally.

21/12/2017.

21/12

Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
	Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
Sqm	3470.10	109828.67	8846.45	31.65	279990.00	12316.55	389818.67	
Cum	0.00	0.00	191.65	6050.10	1159502.00	191.65	1159502.00	
Sqm	0.00	0.00	3833.03	14.77	56614.00	3833.03	56614.00	
Cum	0.00	0.00	353.86	9594.72	3395188.00	353.86	3395188.00	
Cum	86.75	689118.58	0.00	7943.73	0.00	86.75	689118.58	
Cum	1027.21	106696.30	1887.91	103.87	196097.00	2915.12	302793.30	
		3861923.40			**15199617.00**		**19061540.40**	

38,61,784-00

1,90,61,401-00